REMARKS

Upon entry of this response, claims 1-30, and 32-45 will be pending in the present application, with claims 1, 26, 29, 32 and 40 being independent. Claims 1, 3-11, 15-16, 18, 21, 25-26, 28-30, 32, and 43 were rejected under 35 U.S.C. 102(e) as being allegedly anticipated by Kalra et al (5,953,506). Claims 2, 12-14, 17, 19-20, 22-24, 27, 33-36, 40-42, and 44-45 were rejected under 35 U.S.C. 103(a) as being allegedly unpatentable over Kalra and/or other references. Generally, Applicant submits that all of the above rejections are improper. Reconsideration and reexamination is requested in view of the following remarks.

Independent Claim 1

Independent claim 1 was rejected under 35 U.S.C. 102(e) as being allegedly anticipated by *Kalra*, which discloses systems and methods for transmitting a customized video stream from a server device to a client device. *Kalra* does not teach, suggest, or disclose a decoding device that decodes only portions of received video input responsive to constrained resources. Claim 1, as amended, is allowable for at least the reason that it includes one or more steps that are not taught, disclosed, or suggested by the cited references, including: "initiating by the decoding device the resource constrained mode, including foregoing decoding of portions of the video input received by the decoding device." One advantage of the method of claim 1 is that the resource constrained mode may be implemented by the decoding device without the need for a server device to make any adjustments for accommodating the resource constrained mode.

Dependent Claims 2-25, and 33-39

Dependent claims 2-25 and 33-39 are allowable for at least the reason that they each include all the features, elements and/or limitations of independent claim 1, which is allowable over the cited references.

Independent Claim 26

Independent claim 26 was rejected under 35 U.S.C. 102(e) as being allegedly anticipated by *Kalra*. Claim 26 as amended, is allowable for at least the reason that it

includes one or more elements that are not taught, disclosed, or suggested by *Kalra*, including: "initiation logic configured to initiate the resource constrained mode responsive to the determination logic, including foregoing decoding of portions of the video input received by the decoding device."

Dependent Claims 27 and 28

Dependent claims 27 and 28 are allowable for at least the reason that they each include all the features, elements and/or limitations of independent claim 26, which is allowable over the cited references.

Independent Claim 29

Independent claim 29 was rejected under 35 U.S.C. 102(e) as being allegedly anticipated by *Kalra*. Claim 29, as amended, is allowable for at least the reason that it includes one or more steps that are not taught, disclosed, or suggested by *Kalra*, including: "responsive to determining that the first video decoding rate is to be reduced, decoding a second portion of the video input received by the decoding device at a second video decoding rate while maintaining synchronization with the audio decoding rate."

Dependent Claim 30

Dependent claim 30 is allowable for at least the reason that it includes all the features, elements and/or limitations of independent claim 29, which is allowable over the cited references.

Independent Claim 32

Independent claim 32 was rejected under 35 U.S.C. 102(e) as being allegedly anticipated by *Kalra*. Claim 32, as amended, is allowable for at least the reason that it includes one or more steps that are not taught, disclosed, or suggested by the cited references, including: "initiating a mode of repeating pictures responsive to determining that at least one resource is constrained."

Independent Claim 40

Independent claim 40 was rejected as being allegedly unpatentable over *Kalra* in view of Casavant et al (5,426,464) and Tan et al (5,959,684). Claim 40, as amended, is allowable for at least the reason that it includes one or more limitations that are not taught, disclosed, or suggested by the cited references, including: "responsive to determining that the resource constrained mode is to be initiated, initiating by the decoding device the resource constrained mode, including foregoing decoding of portions of the video input received by the decoding device."
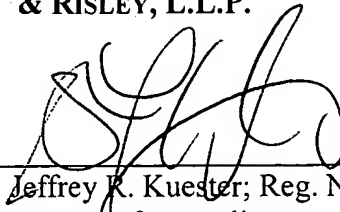
Dependent Claims 41-45

Dependent claims 41-45 are allowable for at least the reason that they each include all the features, elements and/or limitations of independent claim 40, which is allowable over the cited references.

CONCLUSION

Upon entry of this response, claims 1-30, and 32-45 will be pending in the present application, with claims 1, 26, 29, 32 and 40 being independent. Reconsideration is respectfully requested in view of the foregoing remarks. Based on the remarks set forth herein, Applicant respectfully submits that the subject patent application is in condition for allowance. Because the claims include additional elements that are not taught or suggested by the cited art, the preceding arguments in favor of patentability are advanced without prejudice to other bases of patentability. Should the Examiner have any comments or suggestions that would place the subject patent application in better condition for allowance, he is respectfully requested to telephone the undersigned attorney at (770) 933-9500.

THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.

Jeffrey R. Kuester; Reg. No. 34,367
Attorney for Applicant

7

The following is a marked up version of the amended claims. Amend the following claims by adding the language that is underlined ("___") and by deleting the language that is enclosed within brackets ("[ ]"):

1. (Once Amended) A method in a video decoding system for adapting to resource constraints, said method comprising steps of:

      receiving video input by a decoding device;

      determining by the decoding device whether a resource constrained mode is to be initiated; and

      responsive to determining that the resource constrained mode is to be initiated, initiating by the decoding device the resource constrained mode, including foregoing decoding of portions of the video input received by the decoding device [received video input].

26. (Once Amended) A decoding device [video decoding system for adapting to resource constraints, said system] comprising:

      memory for storing video input received by the decoding device;

      determination logic configured to determine whether a resource constrained mode is to be initiated; and

      initiation logic configured to initiate the resource constrained mode responsive to the determination logic, including foregoing decoding of portions of the video input received by the decoding device [received video input].

27. (Once Amended) The [system] decoding device of claim 26, wherein the determination logic is further configured to determine that the resource constrained mode is to be initiated responsive to inadequate memory availability.

28. (Once Amended) The [system] <u>decoding device</u> of claim 26, wherein the determination logic is further configured to determine that the resource constrained mode is to be initiated responsive to inadequate bus bandwidth availability.

29. (Twice Amended) A video decoding method comprising the steps of:

<u>receiving video input by a decoding device;</u>

<u>decoding a first portion of the video input received by the decoding device at a first video decoding rate;</u>

[determining that a video decoding rate should be reduced while maintaining synchronization with an unmodified audio decoding rate; and]

<u>determining that the first video decoding rate is to be reduced; and</u>

[reducing the video decoding rate accordingly.]

<u>responsive to determining that the first video decoding rate is to be reduced, decoding a second portion of the video input received by the decoding device at a second video decoding rate while maintaining synchronization with the audio decoding rate, the second video decoding rate being lower than the first video decoding rate.</u>

32. (Twice Amended) A video decoding method comprising the steps of:

<u>receiving video input by a decoding device;</u>

<u>determining by the decoding device that at least one resource is constrained; and</u>

<u>initiating a mode of repeating pictures responsive to determining that at least one resource is constrained.</u>

[determining whether a picture repetition mode should be initiated;

initiating a mode of repeating pictures responsive to determining that the picture repetition mode should be initiated; and

wherein the determining step is responsive to a step of determining that at least one resource is constrained.]

40.   (Once Amended) A method in a video decoding system for adapting to resource constraints, said method comprising steps of:

receiving video input by a decoding device;

determining by the decoding device whether a resource constrained mode is to be initiated;

responsive to determining that the resource constrained mode is to be initiated, initiating by the decoding device the resource constrained mode, including foregoing decoding of portions of the video input received by the decoding device [received video input];

wherein the [received] video input received by the decoding device has a first picture rate;

wherein an output video stream has a second picture rate that is higher than the first picture rate; and

wherein a decoded picture is presented a plurality of times in place of a picture that is not decoded.

43.   (Once Amended) The method of claim [1] 40, further comprising:

providing an interlaced video picture output having a first set of display fields that is interlaced with a second set of display fields.